



SEQUENCE LISTING

<110> ADAM, GAIL I.
LANGDOWN, MARIA L.

<120> DIAGNOSING PREDISPOSITION TO FAT DEPOSITION AND
ASSOCIATED CONDITIONS

<130> SEQ-4031-UT

<140> 10/608,296

<141> 2003-06-27

<150> 60/392,361

<151> 2002-06-27

<160> 80

<170> PatentIn Ver. 3.2

<210> 1

<211> 12174

<212> DNA

<213> Homo sapiens

<400> 1

gacctacctc	gacctttgtg	ccagggttctt	agcatatggg	acctgggatg	gagtttagcgc	60
tcagttaata	gtaactcatt	agccagggtgc	ggtaggtcat	gtctgtattc	ccagcacttt	120
gggagaccga	gttgggtgga	tcacttgaga	gcaggagttt	gagaccagcc	tggccaacat	180
ggcaaaacac	tatctcta	aaaaatacaa	aaattagcca	gggtgtggtg	cacttgcccta	240
tagtcccagc	tacacaggag	gctggggcag	aagaatcact	tgaacctggg	aggtggaggt	300
tgcagtgagc	caagattgca	ccactgcact	ccagcctgga	aaaaaagggt	aattaataac	360
tttacttgca	accatagctg	cttctccttc	tttgagccac	ccccaatcac	ccacttagca	420
tccttcaggc	ctaaayctag	gagcagtgcc	tggctcctctg	tcttgttatg	acccaagga	480
accacataa	gagggactga	acattttgct	gggcaaggct	tccctttgct	tgggcagact	540
ccactcattc	tggggctgca	gaggcaggac	cattcagtc	agctgatgtg	ggattctgac	600
ctaaccaagt	ccccctccat	tagtcctcat	agccccacc	tcccatggg	cagccctgag	660
acaggctctg	tgacaatcca	cagcagccct	gtccaacaga	accttctgtg	atcatggaaa	720
cattctgtgg	ctgccaatct	ggcagccact	cgccacatgt	gtctatgagc	cttgaaatgt	780
ggccattgtg	actgagaaac	tgaactttta	atgggtatttc	atttttattt	ttattttttt	840
tttattttatt	ttgaggcaga	gtctcactct	gtcaccggg	ctggagtgc	gtggcactcg	900
gctcactgca	agctccgcct	cccgggttca	cgccattctc	ctgcctcagc	ctcgggagta	960
cctgggacaa	caggcacccg	ccaccacgcc	cggctaattt	tttgtatttt	tagtagagat	1020
ggggtttcac	catggtctcg	atctcctgac	ctcagggtgat	ccaccgcctt	cggcctcccg	1080
aagtgctggg	actgcaggca	tgagccacca	cgcccgggcc	agaaaagaga	tgattaaaca	1140
taaagcagcc	atgtgatgaa	atggcacttt	gcctctgtgg	tcttcctccc	ccaaacccat	1200
aactgtaatc	taattatgag	aaaaacacag	gacaattcca	atagagagcc	aggtgcagtg	1260
gttcacgcct	gtaatcccag	cactttggga	ggctgaggcg	ggcagatcat	gaggtcaaga	1320
aatcaagacc	atcctggcca	acatgggtgaa	accccgctct	tactaaaaat	acaaaaatta	1380
gctggacgca	gtgggtgtgca	cctgtagtcc	cagctactcg	ggaggctgag	gcaggagaat	1440
catttgaaac	cgggaggcag	aggttgagct	gagctgagat	cgcgccactg	cactccagcc	1500
tgggtgacaga	gtgagactcc	gtctcaaaaa	taaataaaaa	taaataaata	aaaattagct	1560
gggcgtgggtg	gcacgtgcct	gtaatcccag	ctactcagag	gctgaggcac	agaatcact	1620
tgaacctggg	agacagagat	tgcagtgagc	cgagattgtg	ccactgcact	ccagcctggg	1680
cgacagagtg	agactacaac	aaacacacac	acacacaccc	acacacacac	acacacaaat	1740
tccaagagag	ggtcatcctg	accaatactc	ctcaaaacta	tcaagggttg	tgggcacagt	1800
ggctcacgcc	tgtgatccca	atgctttggg	aggcttagat	gggaggatca	cttgaggcca	1860
ggagttcaag	accagcctgg	gcaacatagg	gagacgccgt	gtctccaaaa	atttttttga	1920

gacagagtct	cgctgtgtcg	cccaggcccg	agtacagtgg	cgtgatctcg	gctcactgca	1980
aactctgcct	cctgggttca	cgccattctt	ctgcctcagc	ctcccaagtt	gctgagatta	2040
caggcacccg	ccaccatgcc	cagcttattt	tttgtatctt	tagtagagac	aaggtttcac	2100
tgtgttagcc	aggatggtct	ccatcacctg	acctcgtgat	ccgcctgcct	cggctctccc	2160
aagtgtctgg	attacaggta	tgagccaccg	tgccctggccc	aaaaaatttt	tttaaattag	2220
ccagggtgtg	tgacacatgt	ctgtagtccc	cactaatcgg	gaggctaagg	tgaggaggatt	2280
gcttgagccc	aggagggtga	ggctgcagtg	aactatgatc	gtgtcactgc	acatcagtct	2340
gggaaacaga	gcgacacttt	gtctcaaaaa	aaaaaaacag	ataaataaat	taaataacca	2400
ggccctcctt	atcccacagg	gttgtttag	aggtgacata	ggaacagaag	agcaccaagt	2460
taaccaatta	taaatctata	tagagagaag	cagatcagag	gccaggcaca	gtggctcatg	2520
cctataatcc	cagcattttg	ggaggctgag	gagtggatca	cctgagggtca	agagtttgag	2580
accagcctga	ccaacatggt	gaaaccttgt	ctctactaaa	aatacaaaaa	ttatccaggc	2640
atgctggcag	gcgcctgtaa	ttcccagcta	cacgagaggc	tgaggcagga	gaatcgcttg	2700
aacctgggag	gcggagggtg	cagtaagccg	agatcgtgcc	attgcactcc	agcctgggcg	2760
acaagagcga	aactctgtct	caaaaaaaaa	agagagagag	agagagaagc	agattagcag	2820
ttaccagggg	ctgagggagt	gtgactgcta	atgggtacag	ggtttccttc	tgagtgata	2880
aaaatgttct	ggaaccccat	agagggtgat	gttgacacac	actgtgaagg	tactaaatgc	2940
ccccgaattg	tttacttaaa	cgtgggtta	gttatgtgaa	tttcagctaa	acaatgttat	3000
gtagatatct	ggccggggcg	ggtggctcac	gcctgtaatc	ccagcatctt	gggaggccga	3060
ggcaggtgga	tcacgaggtc	aggagatcga	gaccatcctg	gctaattgcg	tgaaacccca	3120
tctctactaa	aaatacaaaa	aaaaaaatta	accgggcgtg	gtgggtgggtg	cctgtagtcc	3180
cagctacttg	ggaggctgag	gcaggagaat	ggcatgaacc	tgaggaggcag	agcttgcaagt	3240
gagccaagat	cgcgccattg	cactccagcc	taggcaacag	agcaagactc	cgtctcaaaa	3300
aatatatata	aataaataga	tatgtgatgt	gacaggtttt	tttttgagat	ggagttttgc	3360
tcttgttccc	taggctggag	tgcaatggcg	tgatctcagc	tcaccgcaac	ctccgcctcc	3420
aggtttcaag	ccattctcct	gcctcggcct	ccggagtagc	tgaggattaca	ggcataagcc	3480
accatgcctg	gctaattttg	tgtttttagt	agagacaggg	ttattccatg	ttggtcaggc	3540
tggtctcgaa	ctctccacct	caggtgatct	gccagcctca	gcctcccaaa	gtgctgggat	3600
tacaggcatg	agccaccgtg	cctggcctct	gatatgacag	ttctaattgc	ctttagtatt	3660
ctataattca	gactcaggcc	tttggaatcc	aaagcccagg	ttttctcac	aaaccacac	3720
tgcagagcgg	agtgggtgga	aaaaataaaa	cctctgcctt	ggaatcagac	agatctaaac	3780
tggagcccta	ttttgtcatt	tgccaactgt	gtgaccttgg	gcaagttacc	gcaactctct	3840
gaacctgtct	ctttatctgc	aaggtgcacg	actgatggga	ctattcaacc	agaccagtg	3900
cacagattca	ggcacttgat	aagacattga	ggctgcaggc	agcgatcttt	tttctttctt	3960
tctttttttt	tttttttttt	tgaaataggg	tctcactctg	ctgcagaggc	tcaatcactg	4020
ttcattgcag	ccttgacctc	cctggctcam	gagatcctcc	catctcagcc	tcctgagttg	4080
ctgggatcac	aggtgcaatc	caccaccaca	cctggttaac	attttttttt	ttagagatga	4140
ggtctctcta	tgttgcccag	gctgcacttc	cttcttgtct	cccttatccc	agcgtccgac	4200
tgaactgacg	gctttgcttt	ccccaaccag	cccgtgaagc	tggtgtgagt	acaaagtggg	4260
gggtatgagg	gtcaagattg	taagatctga	aaactccaga	aaccatccct	ttggttaaca	4320
gttgctaagg	acaaatgcat	aacatatctt	ccagtgatcc	catgctggca	aatcgtcagg	4380
gtcattcctg	caacagacag	attcaaggcc	agccccaac	tcagccaaga	gcaaagcaaa	4440
cactccagcc	ttatctgggc	agggttgtgt	ggagactgac	tataagacta	tacctgagac	4500
tggtcatctc	agttcttttc	tcaccttgac	tgcaagatga	aactccttgt	gctagctgtg	4560
ctgctcacag	gtaggcaagt	ctccccggct	ccaccgcctt	ttctctccca	agtgagctaa	4620
gatctcactc	ctctggaatg	ggggccacag	gccacagcaa	acagggatgg	ccagccccgc	4680
agtctcaawt	cgagggtccc	agtggggcct	aagggtcctt	ctattggggg	tccttcaagg	4740
ctggcacttt	ttcaacctgc	aagtctgaac	tcagattgcc	tgagctaaga	aagcttgcc	4800
ttattttctt	ttttccagac	agggtcttgc	tctatcacc	aggctggagt	tcagtggcat	4860
gatcatagct	caccacagct	tccaactcgt	gggtcaagt	gatcctccca	ccttactcaa	4920
ctaagtagtt	aggccaatct	ccattttatt	ttattttatt	ttaattttta	tttttatttt	4980
actttatttt	atttttgaga	cggggctcac	tctgtcgccc	aggctggagt	gcgggtggcgt	5040
gatctcagat	cactacaacc	tccatctcct	gggttcaa	aattctcttg	cctcagcctc	5100
tcaagtagct	gggacttgta	gctctcaagt	agctggcaca	caccaccatg	cccagctaat	5160
tttttgtgtg	tttttttttg	tagagacagg	ttttcaccat	gttgggccagg	ctgggtgacc	5220
tcccttttag	attctcctca	tcctgctcta	ttcttccctt	ttctaatagca	gtatccagtt	5280
tccttactta	tcacatttat	tattattctt	attattattg	agacagagtc	ttgctttgtc	5340
gccaaggctg	gagtacagtg	gtgcgatctc	ggctcactgc	aagctccacc	tgctgggttc	5400

acgccattct	cccgcctcag	cctccccagt	agctgggact	aaaggcgct	gccaccacgc	5460
cccgcctaatt	tttttgtatt	tttaataaag	acgggggtttc	atcgtgttag	ccaggatggt	5520
ctcgatctca	tgaccttgtg	atccgcctgc	ctcggcctcc	caaagtgctg	ggattacagg	5580
catgagccac	cgtgcccggc	cttatcacat	ttattattta	ttgtttttct	ctcccactag	5640
gttgtaagct	ccatgagggt	agagattatt	attattatta	ttattattat	tattattatt	5700
attattatta	tatctgttca	ctgctgtatc	tctagctcct	aggacagagc	ctggcacata	5760
gtaagtgtc	aataaatatt	cactggataa	acagtgcaga	tagtttaaaa	ctatctgacc	5820
tagggaggct	gaggcaggag	aatggcgtga	acccgggaag	cagagtttgc	agtgagctga	5880
aatcgtgtca	ctgcactcca	acctgggcaa	cagagcaaga	ctccatctca	aaaaaaaaaa	5940
aaaaactatc	aggcctagct	gggtggcaca	tgctgtaat	cctagctgag	gcggtagggg	6000
cccagaagaa	gaagaagaag	aaaaagaaga	agatatatat	atatatacac	acacacaaag	6060
atataaactt	tatatatata	aagttttcat	taaaaaaaaa	aaaaaacctc	taccactttt	6120
cactttacca	ggttcctggg	tccaacgggc	ttcagaggag	gcagctggca	ggggtcaggg	6180
aggcagcgtg	ggacccgagg	gagcaggaag	gcagtgtgtc	ccgggggtgc	tggcagaccg	6240
atgtgaactc	tggctatgtc	ttcttgcatg	ggccggccgc	gmcagcggca	tcagccctcg	6300
ggcctgtgtg	cagttccgca	aaatgatcaa	gtgcgtgatc	ccggggagtg	accccttytt	6360
ggaatacaac	aactacggct	gctactgtgg	cttggggggc	tcaggcaccc	ccgtggatga	6420
actggacaag	taagtgatec	gcctgcagga	aaattggagt	gcctgccggg	ggcgggggtg	6480
ggcacacgcc	aaggatctca	cgaggcatac	aaaggggact	tgcatatctg	ctaaggataa	6540
catattttca	cctcttgtca	aataaacaac	tatgttccaa	gaggaccctg	tagcgaacgc	6600
accccgttag	agatggaaac	aatgaccgac	gtgcaaaaca	gtgggcgatg	ctgccctcca	6660
gtggcagaat	gtagcaacag	taaacatcac	agcaactatc	cacgtgtcat	tttctagcag	6720
tgggtgtcac	tgcaccttct	gaatacagga	ttttactgta	ttcttgcaac	catgttaaaa	6780
atcgctttca	ggccaggcgc	ggtggctcat	gcctgtaatc	ccagcacttt	gggaggccga	6840
ggcggggcga	tcacttgagg	tcaggagttc	gagaccagcc	tggccaacat	ggtgaaaccc	6900
tgtctctact	aaaaaataca	aaaattagcc	ggacatgggt	gcgagcgctt	gtaaccccag	6960
ctacttggga	gactgagttg	gaggtttcag	tgagccaagg	tcgtgtcact	gctgtccagc	7020
ctgggtaaca	gagcaactct	gtctcaaaaa	aaaaaaatgc	tttcaataaa	tatatgataa	7080
aaggacttat	attttttcaa	gccataggat	catttctcct	gaagcatctt	ggcgaagtca	7140
tccccacctg	ttcctgagag	tgggcagggt	agggtgacc	tattgctctg	cacttactcc	7200
tatctcagct	gtccctccca	ctttccaggt	gctgccagac	acatgacaac	tgctaygacc	7260
aggccaagaa	gctggacagc	tgtaaatttc	tgtctggacam	mccgtacacc	cacacctatt	7320
catactcrtg	ctctggctcg	gcaatcacct	gtagcagtag	gtttatccct	tccttgacct	7380
atgaattcta	gttggttctc	agtaggcggg	ggggaaataa	tagtaacaac	agccatgatt	7440
tagtggtaat	tttcttggtt	ctgggcagtg	tctcctttta	tcctcagaac	aacactatgg	7500
gataggtaac	attatcctca	cttaacagat	aagaaaactg	aggctcagaa	ggctgagcta	7560
tttgcccaag	atcacacagc	ttgtaagtgg	tgacagtttg	ggtttttttt	tgttggtggt	7620
tagagacagg	gtcttgctct	gtcacccagg	catgagcaca	gtgggtgcaac	cataggtcac	7680
tgcagcctca	acctcctgag	ctcaagggat	ctgctgacct	cagcctccca	agtagctggg	7740
actacgagcg	tgcaccacca	cgcttggtca	attaaaaaaaa	tttttttgta	gagactgggt	7800
cttactacgt	tggccaggct	tgtcttaaac	tcctggcttc	aagcaatcct	cctaccttgg	7860
catcccaaag	tgctgggatt	acaggggtga	gccaccatgt	gcggctactt	atctctttac	7920
attccatctt	tccaatagaa	tgtaatatcc	acagaacagg	gattactgcc	tattttcttc	7980
ctttcttttt	tgagacagag	tctcacttca	tcacctcaac	ctccgttcag	ctcactgcaa	8040
cctctgcctc	ccgggttcaa	gygattctcc	tgcctaagcc	tcctgagtag	ctggaattac	8100
aagcgtgcac	caccatgctt	ggctaatttt	ttgtattttt	agcagagatg	gggttttacc	8160
atggtgcca	ggctgggtctc	aaactcctga	cctcaagtga	tctgcctgcc	tcagtctccc	8220
aaagtgtgtg	aattataggg	gtgagtcact	gtgcctggcc	gattactgtc	tattttcttt	8280
attgctatat	ccccagatct	agagcagtg	ctgacatata	gtagggtgctc	aataaataat	8340
tgatgaatgc	acagcctaga	tataaacttt	ctttttcttt	ttttaaaaca	atcttgacaa	8400
ctttgcagaa	taaatacaat	cttgcatctc	gctttttcac	ttatcacctt	gttatgactt	8460
tttcatattg	cctcaaacct	ttattgttac	tgttttttca	ttgttactat	tttagtcact	8520
gaataaatatg	gcttaatttg	cttatacatc	ctcctgctcc	actttagaag	gccaaattta	8580
caaactctgat	gaaagctatg	aacctctctc	ccagagaaat	acacacacac	acacacactc	8640
acacacagtt	tttttttaat	gtttgcaact	aagacaagaa	acctgcatta	gaggatgttt	8700
gttcatatta	attaaaaata	actcagttgg	gcacagtgc	tcaagcctgt	aaccacagta	8760
ctttggaagt	ccaaggtggg	tggatcactt	gaggtgagaa	gttcgagacc	agcctggtca	8820
atatggtgaa	acctatctc	tactaaaaat	acaaaaatta	gctgggtgta	gtgatgcatg	8880

cctgtagtcc	cagctactcg	ggaggctgag	gcaagagaat	tgcttgaacc	tgggaggcag	8940
aggttgcagt	gagccgagat	cccaccactg	cactccagcc	tgggcgacac	agcgagactc	9000
tatctcaaaa	aaataaataa	ataaaaataaa	ggatcggaga	gaaacaaaac	taataagatt	9060
cctgaaggta	agcagagata	cgtaaattat	atgtaataaa	gtttaaatgc	attttaactg	9120
taatcttatt	gtttattttg	gttataaaaag	taaacaagcc	aaaagtaatg	caacttcaaa	9180
ckctacataa	atatctatta	tggaaagtgg	aaggcatcta	taatcctact	acccaaagat	9240
aaccagttac	atattcctcc	agattttttg	ggcatacact	agcttttttt	atttgggaaa	9300
atttccatgt	gcaggcatac	ctaatttttc	taaatgtcta	tgtagtattc	catttaagga	9360
tgttccataa	tttttaaaat	acatgcttta	aagtagagaa	actaggttgg	gcatggtggc	9420
tcacgcctgt	atcccagcac	tttgggaggg	cgaggcaaat	ggatcacttg	aggccgggag	9480
tttgagacca	gcctggacaa	catgatgaaa	cacctctctc	aataaaaaata	caaaaattag	9540
ctgggcatgg	tggcaagcac	ctgtagtccc	agctactcag	gagtctgagg	caggagtatc	9600
acttgaactc	aggaggcaga	agttgcagtg	agctgagatc	acgccactgc	actccagcct	9660
aggcgacaaa	agggaaactc	cgtcttaaaa	acaaaacaaa	acaaaaaaac	acaggatgcc	9720
cagataaata	tgacttttcag	ataagcaatg	gataattttt	tgggggggtat	atgtcccaaa	9780
tattgcattc	attgtttatc	tgaaagtcaa	atttaactgg	gcatcctgat	gtacttgtat	9840
tcacttaatc	tgtcagccct	aaatgtgcat	cagtggaaatg	gctgccagct	tattccagtt	9900
aattcttctt	gccccagatt	gtacaaaaca	gggtccacct	tggctcagtc	ctctcctttc	9960
atccctctcc	aggcaaaaac	aaagagtgtg	aggccttcat	ttgcaactgc	gaccgcaacg	10020
ctgccatctg	cttttcaaaa	gctccatata	acaaggcaca	caagaacctg	gacaccaaga	10080
agtattgtca	gagttgaata	tcacctctca	aaagcatcac	ctctatctgc	ctcatctcac	10140
actgtactct	ccaataaagc	accttggtga	aagacctcat	gtttggatat	tgttttattc	10200
tctgtctata	aactaggtct	ctgcctactc	ttttattttt	atgtatttat	tttttctagg	10260
tggagtcttg	ctctgtggcc	caggctggag	tgcagtgatg	ccaccttgcc	tcactgcaac	10320
ctccgcctcc	cgggctcaag	caatcctccc	gcctcatcct	cccgagtagc	tgggaccata	10380
ggcatgcacc	accatgcctg	gctaattttt	gtattttttg	tagagacaga	gtttcgccat	10440
gttgccctgg	ctggtctcaa	actcctcagc	ttaagtgate	tgccctggctc	ggcctcgcaa	10500
agtgttggga	ttacatgcat	gagccgcgcg	gcctggctac	tctgcctagt	cttttgtgag	10560
tatcatttct	tccagccttg	gaagctaagt	tgaattagaa	agacacttcc	aggaagcaag	10620
caagcacctt	gaaacctgag	taatgattaa	cgatcaccat	ctactgatta	tttactctgt	10680
accaggactg	tgtgtccata	aatcctcttg	acagccctgt	gaggtattgg	cgctatttagc	10740
aaatcttatt	ttcctaagct	gaggctcaat	aggagaggtc	acttttccaa	tgctatcatc	10800
tagtaagcag	cagagaagga	atttgaactc	ggcaagtcta	acaacagaaa	acacatgctg	10860
aaccactgcc	cttccctgcc	tgaagtggta	ggctttagtt	tgagccagac	cttgcccccg	10920
tctcatgatt	ctgcctccat	tttcaactgt	attaaaccat	ttttctacaa	tgactttctt	10980
tttttttttt	ttttttgaga	tggagtctcg	ctctgtcgcc	caggctggag	tgcagtgctg	11040
caatctcggc	tcactgcaag	ctctgcctcc	cagggttcacg	ccattctcct	gcctcagctt	11100
cccgagtagc	tgggtttaca	ggctcctgcc	accacgcccc	gctaattttt	tgtattttca	11160
gtagagacgg	ggtttcaccg	tgttagccag	gatggtctcg	atctcctgac	ctcgtgatec	11220
gcccgcctcg	gcctcccaaa	gtgctgggat	tacaggcggtg	agccaccgca	cacggccacg	11280
actttctttt	ctaaataaaa	gacttcacca	cactctacag	gctaattttg	acactgtagt	11340
catgaaatat	aataaacatt	aacaagccga	gcatggcggc	acgcgcctat	gacgtagct	11400
actcaagagg	ctgaggcagg	aggatctctt	gatcccggga	gtttgaggct	gcagtgagct	11460
atgatcacac	cactgcactc	cagcctgggt	gaaagagtga	gacctgttt	caagctacta	11520
gggaggctga	agtggaagga	tcccctgagc	ccaggagttg	gaggctgcag	tgagctgtga	11580
tcacgccact	gcactccagc	ctgagtgaca	gagagagaca	ctatctcaaa	caaacacaca	11640
cacaaaacmc	aaacaaaaca	aaacaaaaca	aaacaaaaca	aaacaaaaaa	ccaataacag	11700
cttgcatttc	tggagcactt	actgcatact	tccttgttcg	gagttttcca	catctcatct	11760
cattaaatgt	tcaaaccagc	tctgtgatat	tgataatttt	gctcccattt	catggatgtg	11820
gaactaaaaa	ttcagagaag	ttaagtcatt	tgtccaagat	cacacaaatg	gcaaaatcag	11880
gatttggcca	ggtctgtctg	gtggcagtgc	ccaagctttt	aaccactaag	tcacttcagc	11940
ccaattcctc	tatgagtatt	tatgactaca	tttacattga	aattcaccag	aactaagcca	12000
gggacagtgg	ctcacgcctg	taatcccagg	actttgagaa	gtctaggtgg	gcagatcact	12060
tgaggccagg	agtttgagac	cagcctggcc	aacatggcaa	aacctgtct	ctactaaaaa	12120
atacaaaaat	tagccgagta	tgggtggcata	ggcctgtaat	cccaactact	cagg	12174


```
<210> 2
<211> 148
<212> PRT
<213> Homo sapiens
```

```

<400> 2
Met Lys Leu Leu Val Leu Ala Val Leu Leu Thr Val Ala Ala Ala Asp
  1          5          10          15

Ser Gly Ile Ser Pro Arg Ala Val Trp Gln Phe Arg Lys Met Ile Lys
      20          25          30

Cys Val Ile Pro Gly Ser Asp Pro Phe Leu Glu Tyr Asn Asn Tyr Gly
      35          40          45

Cys Tyr Cys Gly Leu Gly Gly Ser Gly Thr Pro Val Asp Glu Leu Asp
      50          55          60

Lys Cys Cys Gln Thr His Asp Asn Cys Tyr Asp Gln Ala Lys Lys Leu
      65          70          75          80

Asp Ser Cys Lys Phe Leu Leu Asp Asn Pro Tyr Thr His Thr Tyr Ser
      85          90          95

Tyr Ser Cys Ser Gly Ser Ala Ile Thr Cys Ser Ser Lys Asn Lys Glu
      100          105          110

Cys Glu Ala Phe Ile Cys Asn Cys Asp Arg Asn Ala Ala Ile Cys Phe
      115          120          125

Ser Lys Ala Pro Tyr Asn Lys Ala His Lys Asn Leu Asp Thr Lys Lys
      130          135          140

Tyr Cys Gln Ser
145

```

```
<210> 3
<211> 562
<212> DNA
<213> Homo sapiens
```

<400> 3							
tggtcatctc	agtttctttt	ctcaccttga	ctgcaagatg	aaactccttg	tgctagctgt	60	
gctgctcaca	gtggccgcgcg	ccgacagcgg	catcagccct	cgggccgtgt	ggcagttccg	120	
caaaatgatc	aagtgcgtga	tcccggggag	tgaccccttc	ttggaataca	acaactacgg	180	
ctgctactgt	ggcttggggg	gctcaggcac	ccccgtggat	gaactggaca	agtgctgcca	240	
gacacatgac	aactgctatg	accaggccaa	gaagctggac	agctgtaaat	ttctgctgga	300	
caacccgtag	accacacact	attcatactc	gtgctctggc	tcggaatca	cctgtagcag	360	
caaaaacaaa	gagtgtgagg	ccttcatttg	caactgcgac	cgcaacgctg	ccatctgctt	420	
ttcaaaagct	ccatataaca	aggcacacaa	gaacctggac	accaagaagt	attgtcagag	480	
ttgaatatca	cctctcaaaa	gcatacctc	tatctgcctc	atctcacact	gtactctcca	540	
ataaagcacc	ttgttgaaag	aa				562	

$$\begin{aligned} \langle 210 \rangle & 4 \\ \langle 211 \rangle & 552 \end{aligned}$$

<212> DNA

<213> *Mus musculus*

<400> 4

```
ctccccctcac tccttctgaa gatgaaactc cttctgctgg ctgctctgct cacagcaggc 60
gctgctgcac acagcatcag ccctcgggct gtgtggcagt tccgcaatat gatcaagtgc 120
accatccccg ggagtgatcc cctgaaggat tacaacaact atggctgcta ctgtggcttg 180
ggcggctggg gcaccccagt ggacgactta gacaggtgct gccagactca tgaccactgc 240
tacagtcagg ccaagaagct ggaaagctgt aaattcctca tagacaaccc ctacaccaac 300
acttactcct actcatgctc cgggagcgag atcacctgca gcgccaaaaa caacaaatgc 360
gaggacttca tctgcaactg tgaccgtgag gccgccatct gcttctccaa ggtcccgtac 420
aacaaggaat acaaaaacct tgacaccggg aaattctgtt agcctgtcac ctcacttcct 480
gcccacgccg accccgccc ccttgctgtc ttatttcacc ctgcgccttc taataaagta 540
cctgctgtca ga 552
```

<210> 5

<211> 542

<212> DNA

<213> *Rattus norvegicus*

<400> 5

```
ccctcgccaa gatgaaactc cttctgctgg ctgctttgct cacagcaggc gttactgcac 60
acagcatcag cactcgggct gtgtggcagt tccgcaatat gatcaagtgc accatccccg 120
ggagtgatcc cctgagggag tacaacaact acggctgcta ctgtggcttg ggcggctcag 180
gcaccccagt ggacgactta gacaggtgct gccagactca tgaccactgc tacaatcagg 240
ccaagaagct ggaaagctgt aaattcctca tgcacaaccc ctacaccaac acgtactcat 300
acaagtgtc cgggaacgtg atcacctgca gcgacaaaaa caacgactgt gagagcttca 360
tctgcaactg tgaccggcag gccgccatct gtttctccaa ggtcccctac aacaaggaat 420
acaaagacct tgacaccaag aaacactgtt aggctgtcac cccacttcct gtctatgccg 480
tccccgctcc ccttgctgtc ttatttctgc accgcaccct ctaataaagt accagcagaa 540
ag 542
```

<210> 6

<211> 289

<212> DNA

<213> *Psammomys obesus*

<220>

<221> modified base

<222> (269)

<223> G, C, A, or T

<400> 6

```
tgttccgcaa tatgatcaag tgcgccatcc ccggaagtaa gccctgaag gagtacaaca 60
actacggctg ctactgcggc ctgggcggcg caggcacccc agtggacgaa ttagacaggt 120
gctgccagat ccatgacaat tgctacacta aggccaagag gctgaaaagc tgtaaatccc 180
tcctggacaa cccctacacc cactcatact cgtacaagtg ctccgggaat gagatcatct 240
gtagtgacaa aaacaaggaa tgcgaggcnt tcattctgcaa ctgtgaccg 289
```

<210> 7

<211> 148

<212> PRT

<213> *Homo sapiens*

<400> 7

Met Lys Leu Leu Val Leu Ala Val Leu Leu Thr Val Ala Ala Ala Asp
1 5 10 15

Ser Gly Ile Ser Pro Arg Ala Val Trp Gln Phe Arg Lys Met Ile Lys
20 25 30

Cys Val Ile Pro Gly Ser Asp Pro Phe Leu Glu Tyr Asn Asn Tyr Gly
35 40 45

Cys Tyr Cys Gly Leu Gly Gly Ser Gly Thr Pro Val Asp Glu Leu Asp
50 55 60

Lys Cys Cys Gln Thr His Asp Asn Cys Tyr Asp Gln Ala Lys Lys Leu
65 70 75 80

Asp Ser Cys Lys Phe Leu Leu Asp Asn Pro Tyr Thr His Thr Tyr Ser
85 90 95

Tyr Ser Cys Ser Gly Ser Ala Ile Thr Cys Ser Ser Lys Asn Lys Glu
100 105 110

Cys Glu Ala Phe Ile Cys Asn Cys Asp Arg Asn Ala Ala Ile Cys Phe
115 120 125

Ser Lys Ala Pro Tyr Asn Lys Ala His Lys Asn Leu Asp Thr Lys Lys
130 135 140

Tyr Cys Gln Ser
145

<210> 8

<211> 146

<212> PRT

<213> Mus musculus

<400> 8

Met Lys Leu Leu Leu Leu Ala Ala Leu Leu Thr Ala Gly Ala Ala Ala
1 5 10 15

His Ser Ile Ser Pro Arg Ala Val Trp Gln Phe Arg Asn Met Ile Lys
20 25 30

Cys Thr Ile Pro Gly Ser Asp Pro Leu Lys Asp Tyr Asn Asn Tyr Gly
35 40 45

Cys Tyr Cys Gly Leu Gly Gly Trp Gly Thr Pro Val Asp Asp Leu Asp
50 55 60

Arg Cys Cys Gln Thr His Asp His Cys Tyr Ser Gln Ala Lys Lys Leu
65 70 75 80

Glu Ser Cys Lys Phe Leu Ile Asp Asn Pro Tyr Thr Asn Thr Tyr Ser
85 90 95

Tyr Ser Cys Ser Gly Ser Glu Ile Thr Cys Ser Ala Lys Asn Asn Lys
100 105 110

Cys Glu Asp Phe Ile Cys Asn Cys Asp Arg Glu Ala Ala Ile Cys Phe
 115 120 125

Ser Lys Val Pro Tyr Asn Lys Glu Tyr Lys Asn Leu Asp Thr Gly Lys
 130 135 140

Phe Cys
 145

<210> 9
 <211> 146
 <212> PRT
 <213> *Rattus norvegicus*

<400> 9
 Met Lys Leu Leu Leu Leu Ala Ala Leu Leu Thr Ala Gly Val Thr Ala
 1 5 10 15

His Ser Ile Ser Thr Arg Ala Val Trp Gln Phe Arg Asn Met Ile Lys
 20 25 30

Cys Thr Ile Pro Gly Ser Asp Pro Leu Arg Glu Tyr Asn Asn Tyr Gly
 35 40 45

Cys Tyr Cys Gly Leu Gly Gly Ser Gly Thr Pro Val Asp Asp Leu Asp
 50 55 60

Arg Cys Cys Gln Thr His Asp His Cys Tyr Asn Gln Ala Lys Lys Leu
 65 70 75 80

Glu Ser Cys Lys Phe Leu Ile Asp Asn Pro Tyr Thr Asn Thr Tyr Ser
 85 90 95

Tyr Lys Cys Ser Gly Asn Val Ile Thr Cys Ser Asp Lys Asn Asn Asp
 100 105 110

Cys Glu Ser Phe Ile Cys Asn Cys Asp Arg Gln Ala Ala Ile Cys Phe
 115 120 125

Ser Lys Val Pro Tyr Asn Lys Glu Tyr Lys Asp Leu Asp Thr Lys Lys
 130 135 140

His Cys
 145

<210> 10
 <211> 146
 <212> PRT
 <213> *Psammomys obesus*

<400> 10
 Met Lys Leu Leu Leu Leu Ala Ala Leu Leu Thr Ala Gly Val Gly Ala
 1 5 10 15

His Ser Ile Ser Thr Arg Ala Val Trp Gln Phe Gly Asn Met Ile Lys
 20 25 30
 Cys Ala Ile Pro Gly Ser Lys Pro Leu Lys Glu Tyr Asn Asn Tyr Gly
 35 40 45
 Cys Tyr Cys Gly Leu Gly Gly Ala Gly Thr Pro Val Asp Glu Leu Asp
 50 55 60
 Arg Cys Cys Gln Ile His Asp Asn Cys Tyr Thr Lys Ala Lys Arg Leu
 65 70 75 80
 Lys Ser Cys Lys Ser Leu Leu Asp Asn Pro Tyr Thr His Ser Tyr Ser
 85 90 95
 Tyr Lys Cys Ser Gly Asn Glu Ile Ile Cys Ser Asp Lys Asn Lys Glu
 100 105 110
 Cys Glu Ala Phe Ile Cys Asn Cys Asp Arg Ala Ala Ala Ile Cys Phe
 115 120 125
 Ser Lys Ala Pro Tyr Asn Lys Gln Asp Lys Asn Leu Asn Thr Lys Lys
 130 135 140
 Asn Cys
 145

<210> 11
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Primer

<400> 11
 tgcagaggct caatcactgt

20

<210> 12
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Primer

<400> 12
 caggtgtggt ggtggattg

19

<210> 13
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Primer

<400> 13

cacaggccac agcaaacag

19

<210> 14

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Primer

<400> 14

tcagacttgc aggttgaaaa ag

22

<210> 15

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Primer

<400> 15

ggcagaccga tttgaactct

20

<210> 16

<211> 17

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Primer

<400> 16

cgggatcacg cacttga

17

<210> 17

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Primer

<400> 17
ggcagttccg caaaatgat

19

<210> 18
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Primer

<400> 18
tgcaggcgga tcacttactt

20

<210> 19
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Primer

<400> 19
agctgtccct cccactttc

19

<210> 20
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Primer

<400> 20
gtgtgggtgt acgggttgt

19

<210> 21
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Primer

<400> 21
agctgtccct cccactttc

19

<210> 22
<211> 22

<212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Primer

<400> 22
 ataggtcaag gaagggataa ac 22

<210> 23
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Primer

<400> 23
 agctgtccct cccactttc 19

<210> 24
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Primer

<400> 24
 ataggtcaag gaagggataa ac 22

<210> 25
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Primer

<400> 25
 caagaagctg gacagctgta 20

<210> 26
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Primer

<400> 26
ataggtcaag gaagggataa ac 22

<210> 27
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Primer

<400> 27
atcacctcaa cctccgttca 20

<210> 28
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Primer

<400> 28
ggtggtgcac gcttgtaatt 20

<210> 29
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Primer

<400> 29
aaggtaaagca gagatacgta aattat 26

<210> 30
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Primer

<400> 30
ggttatcttt gggtagtagg attata 26

<210> 31
 <211> 16
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Oligonucleotide

<400> 31
 tgagatggga ggatct

16

<210> 32
 <211> 14
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Oligonucleotide

<400> 32
 actgggaacc tcga

14

<210> 33
 <211> 13
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Oligonucleotide

<400> 33
 gctgatgccg ctg

13

<210> 34
 <211> 13
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Oligonucleotide

<400> 34
 ggagtgaccc ctt

13

<210> 35
 <211> 17
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Oligonucleotide

<400> 35

acacatgaca actgcta

17

<210> 36

<211> 15

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Oligonucleotide

<400> 36

ggtgtgggtg tacgg

15

<210> 37

<211> 15

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Oligonucleotide

<400> 37

ggtgtgggtg tacgg

15

<210> 38

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Oligonucleotide

<400> 38

ccacacctat tcatactc

18

<210> 39

<211> 16

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Oligonucleotide

<400> 39

cttaggcagg agaatc

16

<210> 40
 <211> 17
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Oligonucleotide

<400> 40
 gtaatgcaac ttcaaac

17

<210> 41
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Primer

<400> 41
 acccacttag catccttcag

20

<210> 42
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Primer

<400> 42
 tcttatgtgg gttccttggg

20

<210> 43
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Primer

<400> 43
 tgtggccatt gtgactgaga

20

<210> 44
 <211> 17
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Primer

<400> 44

gcccgggtga cagagtg

17

<210> 45

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Primer

<400> 45

tgtggcagtt ccgcaaaatg

20

<210> 46

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Primer

<400> 46

agtagcagcc gtagttgttg

20

<210> 47

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Primer

<400> 47

accccgttag agatggaaac

20

<210> 48

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Primer

<400> 48
ctgttgctac attctgccac

20

<210> 49
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Primer

<400> 49
aatttctgct ggacaacccg

20

<210> 50
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Primer

<400> 50
cctactgcta caggtgattg

20

<210> 51
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Primer

<400> 51
caagccaaaa gtaatgcaac

20

<210> 52
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Primer

<400> 52
ggattataga tgccttccac

20

<210> 53
<211> 20

<212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Primer

<400> 53
 tcatctcaca ctgtactctc 20

<210> 54
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Primer

<400> 54
 caatatccaa acatgaggtc 20

<210> 55
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Primer

<400> 55
 gacagagaga gacactatct 20

<210> 56
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Primer

<400> 56
 gaaatgcaag ctggtattgg 20

<210> 57
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Oligonucleotide

<400> 57
ttagcatcct tcaggcctaa a

21

<210> 58
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Oligonucleotide

<400> 58
gactctgcct caaaataaat aaaa

24

<210> 59
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Oligonucleotide

<400> 59
gccgtagttg ttgtattcca a

21

<210> 60
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Oligonucleotide

<400> 60
gtgcaaaaca gtgggcgatg ct

22

<210> 61
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Oligonucleotide

<400> 61
tgattgccga gccagagca

19

<210> 62
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Oligonucleotide

<400> 62
 ,tttcataat agatatttat gtag

24

<210> 63
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Oligonucleotide

<400> 63
 cactgtactc tccaataaag cacc

24

<210> 64
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Oligonucleotide

<400> 64
 caaacaaca cacacacaaa ac

22

<210> 65
 <211> 32
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Primer

<400> 65
 acgttggatg gggttgtcca gcagaaattt ac

32

<210> 66
 <211> 28
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Primer

<400> 66

acgttggatg ctttccaggt gctgccag

28

<210> 67

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Primer

<400> 67

agacacatga caactgcta

19

<210> 68

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Primer

<400> 68

gctgtgtggc agttccgcaa

20

<210> 69

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Primer

<400> 69

gttccgcaat atgatcaagt gc

22

<210> 70

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Primer

<400> 70

gatgaaactc cttctgctgg ctg

23

<210> 71
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Primer

<400> 71
 saagatgaaa ctccttctgc tg

22

<210> 72
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Primer

<400> 72
 ggtgaaataa gacagcaagg

20

<210> 73
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Primer

<220>
 <221> modified_base
 <222> (7)
 <223> G, C, A, or T

<400> 73
 ggagaancag atggcggcct

20

<210> 74
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Primer

<400> 74
 cggtcacagt tgcagatgaa g

21

<210> 75
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Primer

<400> 75
 ggaagtgggg tgacagccta aca

23

<210> 76
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Primer

<220>
 <221> modified_base
 <222> (18)
 <223> G, C, A, or T

<400> 76
 ggtgacagsc taacagwntt tc

22

<210> 77
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Primer

<400> 77
 gcaccccaagt ggacgaatt

19

<210> 78
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Primer

<400> 78
 tcagcctctt ggccttagtg tag

23

<210> 79
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Oligonucleotide

<220>
<221> modified_base
<222> (3)..(21)
<223> A, T, C, or G .

<400> 79
aannnnnnnnn nnnnnnnnnn ntt

23

<210> 80
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Oligonucleotide

<400> 80
attagctggg catggtggc

19